

## EAST Search History

| Ref # | Hits | Search Query   | DBs                           | Default Operator | Plurals | Time Stamp       |
|-------|------|--|-------------------------------|------------------|---------|------------------|
| S1    | 111  | 370/286.ccls. and (gain adj control\$8)  | US-PGPUB; USPAT; JPO; IBM_TDB | OR               | OFF     | 2007/12/10 07:20 |
| S2    | 21   | 370/286.ccls. and (gain adj control\$8) and (reference adj signal)                           | US-PGPUB; USPAT; JPO; IBM_TDB | OR               | OFF     | 2007/11/27 11:26 |
| S3    | 2    | 370/286.ccls. and (gain adj unit\$8) and (adaptive adj filter)                               | US-PGPUB; USPAT; JPO; IBM_TDB | OR               | OFF     | 2007/11/27 11:30 |
| S4    | 0    | 370/286.ccls. and ((gain adj unit\$8) with (error adj signal))                               | US-PGPUB; USPAT; JPO; IBM_TDB | OR               | OFF     | 2007/11/27 11:30 |
| S5    | 2    | "370"/\$.ccls. and ((gain adj unit\$8) with (error adj signal))                              | US-PGPUB; USPAT; JPO; IBM_TDB | OR               | OFF     | 2007/11/27 11:32 |
| S6    | 2    | "375"/\$.ccls. and (adaptive adj filter) and ((gain adj unit\$8) with (error adj signal))    | US-PGPUB; USPAT; JPO; IBM_TDB | OR               | OFF     | 2007/11/27 11:33 |
| S7    | 12   | "375"/\$.ccls. and (adaptive adj filter) and ((gain adj unit \$8) )                          | US-PGPUB; USPAT; JPO; IBM_TDB | OR               | OFF     | 2007/11/27 11:34 |
| S8    | 3    | "375"/\$.ccls. and (echo adj cancel\$5) and (adaptive adj filter) and ((gain adj unit \$8) ) | US-PGPUB; USPAT; JPO; IBM_TDB | OR               | OFF     | 2007/11/27 11:35 |
| S9    | 5    | "375"/\$.ccls. and (adaptive adj filter) and (dynamic adj gain)                              | US-PGPUB; USPAT; JPO; IBM_TDB | OR               | OFF     | 2007/11/27 11:41 |
| S10   | 3    | "375"/232.ccls. and (adaptive adj filter) and (dynamic adj gain)                             | US-PGPUB; USPAT; JPO; IBM_TDB | OR               | OFF     | 2007/11/27 11:40 |
| S11   | 5    | "375"/\$.ccls. and (adaptive adj filter) and (dynamic adj gain) and (echo adj cancel \$7)    | US-PGPUB; USPAT; JPO; IBM_TDB | OR               | OFF     | 2007/11/27 11:40 |

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| S12 | 1  | "370"/286.ccls. and<br>(dynamic adj gain adj<br>control\$8)                    | US-PGPUB;<br>USPAT; JPO;<br>IBM_TDB | OR | OFF | 2007/11/27<br>11:48 |
| S13 | 9  | "370"/286.ccls. and<br>(gain adj controller)                                   | US-PGPUB;<br>USPAT; JPO;<br>IBM_TDB | OR | OFF | 2007/11/27<br>11:48 |
| S14 | 0  | ("6925177").URPN.  | USPAT                               | OR | OFF | 2007/11/27<br>14:29 |
| S15 | 4  | ("4600815"  <br>"5636323"   "5796818"<br>  "6173056").PN.                      | US-PGPUB;<br>USPAT;<br>USOCR        | OR | OFF | 2007/11/27<br>14:30 |
| S16 | 3  | "379"/\$.ccls. and<br>((adaptive adj filter)<br>same (gain adj<br>controller)) | US-PGPUB;<br>USPAT;<br>USOCR        | OR | OFF | 2007/11/27<br>14:59 |
| S17 | 2  | "370"/\$.ccls. and<br>((adaptive adj filter)<br>same (gain adj<br>controller)) | US-PGPUB;<br>USPAT;<br>USOCR        | OR | OFF | 2007/11/27<br>15:00 |
| S18 | 6  | "375"/\$.ccls. and<br>((adaptive adj filter)<br>same (gain adj<br>controller)) | US-PGPUB;<br>USPAT;<br>USOCR        | OR | OFF | 2007/11/27<br>15:01 |
| S19 | 8  | "375"/\$.ccls. and<br>((echo adj canceller)<br>same (gain adj<br>controller))  | US-PGPUB;<br>USPAT;<br>USOCR        | OR | OFF | 2007/11/27<br>15:02 |
| S20 | 47 | "375"/232.ccls. and<br>( (gain adj controller))                                | US-PGPUB;<br>USPAT;<br>USOCR        | OR | OFF | 2007/11/27<br>15:02 |
| S21 | 1  | 370/286.ccls. and<br>(dynamic adj gain)  | US-PGPUB;<br>USPAT; JPO;<br>IBM_TDB | OR | OFF | 2007/11/28<br>14:30 |
| S22 | 28 | 370/286.ccls. and<br>((error adj signal)<br>same gain)                         | US-PGPUB;<br>USPAT; JPO;<br>IBM_TDB | OR | OFF | 2007/11/28<br>14:40 |
| S23 | 2  | 370/286.ccls. and<br>(error adj signal) and<br>(gain adj controller)           | US-PGPUB;<br>USPAT; JPO;<br>IBM_TDB | OR | OFF | 2007/11/28<br>14:46 |
| S24 | 9  | 370/286.ccls. and<br>((gain) same (gain adj<br>controller))                    | US-PGPUB;<br>USPAT; JPO;<br>IBM_TDB | OR | OFF | 2007/11/28<br>14:46 |
| S25 | 1  | "6925177".pn.  | US-PGPUB;<br>USPAT; JPO;<br>IBM_TDB | OR | OFF | 2007/12/03<br>13:57 |

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| S26 | 1  | "6925177".pn.  | US-PGPUB;<br>USPAT; JPO;<br>IBM_TDB | OR | OFF | 2007/12/03<br>14:37 |
| S27 | 1  | 10/730449  | US-PGPUB;<br>USPAT; JPO;<br>IBM_TDB | OR | OFF | 2007/12/03<br>14:37 |
| S28 | 1  | 10/730449  | US-PGPUB;<br>USPAT; JPO;<br>IBM_TDB | OR | OFF | 2007/12/04<br>14:25 |
| S29 | 1  | 10/730449  | US-PGPUB;<br>USPAT; JPO;<br>IBM_TDB | OR | OFF | 2007/12/10<br>07:28 |
| S30 | 1  | "6925177".pn.  | US-PGPUB;<br>USPAT; JPO;<br>IBM_TDB | OR | OFF | 2007/12/10<br>07:28 |
| S31 | 1  | "6925177".pn.  | US-PGPUB;<br>USPAT; JPO;<br>IBM_TDB | OR | OFF | 2008/05/15<br>14:30 |
| S32 | 4  | ("4600815"  <br>"5636323"   "5796818"<br>  "6173056").PN.  | US-PGPUB;<br>USPAT;<br>USOCR        | OR | OFF | 2008/05/15<br>14:34 |
| S33 | 5  | ("6173056").URPN.  | USPAT                               | OR | OFF | 2008/05/15<br>14:41 |
| S34 | 5  | ("6173056").URPN.  | USPAT                               | OR | OFF | 2008/05/15<br>14:41 |
| S35 | 94 | 370/290.ccls. and<br>((adaptive adj filter)<br>and (error adj signal))                                 | US-PGPUB;<br>USPAT; JPO;<br>IBM_TDB | OR | OFF | 2008/05/15<br>14:51 |
| S36 | 1  | 370/290.ccls. and<br>((adaptive adj filter)<br>and (gain adj<br>controller) and (error<br>adj signal)) | US-PGPUB;<br>USPAT; JPO;<br>IBM_TDB | OR | OFF | 2008/05/15<br>14:52 |
| S37 | 1  | "7042934".pn.  | US-PGPUB;<br>USPAT; JPO;<br>IBM_TDB | OR | OFF | 2008/05/15<br>15:01 |
| S38 | 1  | 11/053634  | US-PGPUB;<br>USPAT; JPO;<br>IBM_TDB | OR | OFF | 2008/05/15<br>15:24 |
| S39 | 39 | 370/286.ccls. and<br>(predetermined adj<br>period)   | US-PGPUB;<br>USPAT; JPO;<br>IBM_TDB | OR | OFF | 2008/05/21<br>16:07 |
| S40 | 0  | 370/286.ccls. and<br>((predetermined adj<br>period) same<br>(independent) same<br>(error adj signal))  | US-PGPUB;<br>USPAT; JPO;<br>IBM_TDB | OR | OFF | 2008/05/21<br>16:08 |

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| S41 | 2  | 370/286.ccls. and ((predetermined adj period) same (independent) )                 | US-PGPUB; USPAT; JPO; IBM_TDB | OR | OFF | 2008/05/21 16:08 |
| S42 | 1  | "6108412".pn.  | US-PGPUB; USPAT; JPO; IBM_TDB | OR | OFF | 2008/05/21 16:10 |
| S43 | 1  | 370/286.ccls. and (detect\$6 near2 (abrupt adj change) )                           | US-PGPUB; USPAT; JPO; IBM_TDB | OR | OFF | 2008/05/21 16:21 |
| S44 | 1  | "370"/\$.ccls. and (echo adj canceller) and (detect\$6 near2 (abrupt adj change) ) | US-PGPUB; USPAT; JPO; IBM_TDB | OR | OFF | 2008/05/21 16:22 |
| S45 | 1  | "379"/\$.ccls. and (echo adj canceller) and (detect\$6 near2 (abrupt adj change) ) | US-PGPUB; USPAT; JPO; IBM_TDB | OR | OFF | 2008/05/21 16:22 |
| S46 | 1  | "375"/\$.ccls. and (echo adj canceller) and (detect\$6 near2 (abrupt adj change) ) | US-PGPUB; USPAT; JPO; IBM_TDB | OR | OFF | 2008/05/21 16:22 |
| S47 | 2  | "375"/\$.ccls. and (echo adj canceller) and (abrupt adj change)                    | US-PGPUB; USPAT; JPO; IBM_TDB | OR | OFF | 2008/05/21 16:24 |
| S48 | 19 | "375"/\$.ccls. and (echo adj canceller) and (detect\$7 adj change)                 | US-PGPUB; USPAT; JPO; IBM_TDB | OR | OFF | 2008/05/21 16:29 |
| S49 | 2  | (echo adj canceller) and (detect\$7 with (abrupt adj change))                      | US-PGPUB; USPAT; JPO; IBM_TDB | OR | OFF | 2008/05/21 16:36 |
| S50 | 16 | (echo adj canceller) and ((abrupt adj change))                                     | US-PGPUB; USPAT; JPO; IBM_TDB | OR | OFF | 2008/05/21 16:36 |
| S51 | 1  | (echo adj canceller) and ((abrupt adj change)) and (hang adj over)                 | US-PGPUB; USPAT; JPO; IBM_TDB | OR | OFF | 2008/05/21 16:39 |
| S52 | 36 | (echo adj canceller) and (appl\$8 near gain) and (predetermined adj period)        | US-PGPUB; USPAT; JPO; IBM_TDB | OR | OFF | 2008/05/21 16:40 |
| S53 | 0  | (echo adj canceller) and ((appl\$8 near gain) same (predetermined adj period))     | US-PGPUB; USPAT; JPO; IBM_TDB | OR | OFF | 2008/05/21 16:40 |

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|-----|---|--|-------------------------------------|----|-----|---------------------|
| S54 | 1 | (echo adj canceller)<br>and (speed-up adj<br>period) and (hang-over<br>adj period) and<br>(release adj period) | US-PGPUB;<br>USPAT; JPO;<br>IBM_TDB | OR | OFF | 2008/05/21<br>16:47 |
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